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Titolo	Fostering success of ethnic and racial minorities in STEM : the role of minority serving institutions / / edited by Robert T. Palmer, Dina C. Maramba, and Marybeth Gasman
Pubbl/distr/stampa	New York : , : Routledge, , 2013
ISBN	1-136-58917-1 1-283-86248-4 1-136-58918-X 0-203-18103-4
Descrizione fisica	1 online resource (265 p.)
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Soggetti	Science - Study and teaching (Higher) - United States Engineering - Study and teaching (Higher) - United States Technology - Study and teaching (Higher) - United States Mathematics - Study and teaching (Higher) - United States Minority college students - Recruiting - United States Minorities - Education (Higher) - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Charting the course : the role of minority serving institutions in facilitating : the success of underrepresented racial minority students in STEM / Robert T. Palmer, Dina C. Maramba, State University of New York, Binghamton, Marybeth Gasman, University of Pennsylvania, Katherine D. J. Lloyd, Morgan State University -- Minority-serving institutions and STEM : charting the landscape / Frances K. Stage, Valerie C. Lundy-Wagner, Ginelle John, New York University -- Impact of institutional climates of MSIS and their ability to foster success for racial and ethnic minority students in STEM / Terrell L. Strayhorn, The Ohio State University -- Chaper four engineering the academic success of racial and ethnic minority students at minority serving institutions via student-faculty interactions and mentoring / Darnell Cole, Araceli Espinoza, University of Southern California -- Model programs for STEM student success at minority serving two-year colleges / Soko S.

Starobin, Iowa State University, Dimitra Jackson, Texas Tech University, Frankie Santos Laanan, Iowa State University -- Teaching to teach : African American faculty, HBCUs, and critical pedagogy / Roland W. Mitchell, Louisiana State University, T. Elon Dancy II, University of Oklahoma, Dana Hart, Berlisha Morton, Louisiana State University -- Supporting the dream : the role of faculty members at historically black colleges and universities in promoting STEM Ph.D. education / Shannon Gray, Drexel University -- Academic and social integration for students of color in STEM : examining differences between HBCUs and non-hbcus / Idara Essien-Wood, Ashford University, J. Luke Wood, San Diego State University -- Community building minority serving institutions and how they influence students pursuing undergraduate STEM degrees / Alonzo M. Flowers, Rosa M. Banda, Texas A & M University -- Broadening participation in STEM : policy implications of a diverse higher education system / Lorelle L. Espinosa, University of California, Los Angeles, Carlos Rodriguez, University of Arizona -- Action research : an essential practice for 21st century assessment at HSIs / Alicia C. Dowd, Misty Sawatzky, Raquel M. Rall, and Estela Mara Bensimon, University of Southern California -- Asian American and Native American Pacific Islander serving-institutions (AANAPISIS) : mutable sites for science, technology, engineering, and math (STEM) degree production / Robert T. Teranishi, New York University, Dina C. Maramba, State University of New York, Binghamton, Minh Hoa Ta, City College of San Francisco -- Collaborative partnerships in engineering between historically black colleges and universities and predominantly white institutions / Christopher B. Newman, University of San Diego, M. Bryant Jackson, University of Southern California -- Cultivating engineering student success at an historically black college and university (HBCU) : an empirical study on development / Kenneth Taylor, Morgan State University, Robert T. Palmer, State University of New York, Binghamton -- Achieving equity within and beyond STEM : toward a new generation of scholarship in STEM education / Juan C. Garibay, University of California, Los Angeles.

Sommario/riassunto

To maintain competitiveness in the global economy, United States policymakers and national leaders are increasing their attention to producing workers skilled in science, technology, engineering, and mathematics (STEM). Given the growing minority population in the country, it is critical that higher education policies, pedagogies, climates, and initiatives are effective in promoting racial and ethnic minority students' educational attainment in STEM. Minority Serving Institutions (MSIs) have shown efficacy in facilitating the success of racial and ethnic minority students in STEM and are co

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Titolo	Cholesterol Modulation of Protein Function : Sterol Specificity and Indirect Mechanisms / / edited by Avia Rosenhouse-Dantsker, Anna N. Bukiya
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ISBN	3-030-04278-2
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (200 pages)
Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 1115
Disciplina	612.0153 572.5795
Soggetti	Proteomics Proteins Cell membranes Molecular biology Protein Science Membrane Biology Molecular Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1. Sterol specificity in modulating protein function: 1. Chirality effect on cholesterol modulation of protein function -- 2. A critical analysis of molecular mechanisms underlying membrane cholesterol sensitivity of GPCRs -- 3. Regulation of BK channel activity by cholesterol and its derivatives -- 4. Chiral specificity of cholesterol orientation within cholesterol binding sites in inwardly rectifying potassium channels -- Part 2. Indirect modulation of protein function by cholesterol: 5. Cholesterol effect on the physical properties of lipid membranes -- 6. Effect of cholesterol on the dipole potential of lipid membranes -- 7. Mass spectroscopy imaging of cholesterol -- 8. Cholesterol-dependent gating effects on ion channels.
Sommario/riassunto	In this book, renowned scientists describe the role of steroid chirality and modification of lipid membrane physical properties in the modulation of G protein-coupled receptors and ion channels. The

application of commonly-used technical approaches such as mass spectrometry and nucleic magnetic resonance transfer spectroscopy for studies on cholesterol distribution and alteration of lipid bilayer characteristics is also discussed. This book offers comprehensive insights into the current understanding of cholesterol-driven modulation of protein function via mechanisms that extend beyond lipid-protein direct interactions. In the first part, the chapters introduce the reader to the use of the chemical derivatives of cholesterol as a valuable laboratory tool in the studies of cholesterol-driven modulation of protein function. In the second part, examples of cholesterol-induced changes in membrane physical characteristics are presented and discussed in light of their multifaceted contribution to the effect of cholesterol on protein function. The book will be of interest to undergraduate and graduate students as well as basic science and medical researchers with a keen interest in the biophysical properties of cholesterol and physiological consequences of cholesterol presence in biological systems.